

## ABSTRACT

- A high-refractive-index optical silicone oil comprising a pentasiloxane having the
- 5 formula  $\text{RMe}_2\text{SiO}(\text{Me}_2\text{SiO})_3\text{SiMe}_2\text{R}$  wherein Me is methyl, each R is independently a  $\text{C}_8$  to  $\text{C}_{12}$  aralkyl, and the silicone oil has a refractive index of from 1.45 to 1.50 at 25 °C; a method of preparing a high-refractive-index optical silicone oil; a high-refractive-index optical silicone oil mixture comprising a pentasiloxane having the formula
- 10  $\text{RMe}_2\text{SiO}(\text{Me}_2\text{SiO})_3\text{SiMe}_2\text{R}$  wherein Me is methyl, each R is independently a  $\text{C}_8$  to  $\text{C}_{12}$  aralkyl, and a disiloxane having the formula  $\text{RMe}_2\text{SiOSiMe}_2\text{R}$  wherein Me and R as defined above and wherein the mixture has a refractive index of from 1.45 to 1.50 at 25 °C; and a method of preparing a high-refractive-index optical silicone oil mixture.

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